

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Peter BASSLER, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/EP03/07989

GAU:

FILED: Herewith

EXAMINER:

FOR: METHOD FOR THE CONTINUOUS INTERMEDIATE SEPARATION OF AN OXIRANE PRODUCED BY THE OXIRANE SYNTHESIS WITH NO COUPLING PRODUCT BY MEANS OF A PARTITION-WALL COLUMN

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

## REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

## RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

## CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

## DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

264390US0PCT

SERIAL NO. 10/521/90  
New U.S. PCT Application  
Based on PCT/EP03/07989

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Peter BASSLER, et al.

FILING DATE

Herewith

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2 471 134	05/24/49	WRIGHT, Richard O.			
	AB	4 230 533	10/28/80	GIROUX, Victor A.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AL	02 00635	01/03/02	WO (with English abstract & equivalent of US 6723861 & US 2003/0187285)		NO
	AM	0 126 288	11/28/84	EP		NO
	AN	00 07965	02/17/00	WO (with English abstract & equivalent of US 6479680)		NO
	AO	0 122 367	10/24/84	EP		NO
	AP	0 133 510	02/27/85	EP		NO
	AQ	196 23 609	12/18/97	DE (equivalent of US 6008389)		NO
	AR	197 23 949	12/10/98	DE (equivalent of US 6710002 & US 2002/0082159 & US 2004/0152583)		NO

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AS	KAIBEL, Gerd. "Distillation Columns with Vertical Partitions", Chem. Eng. Technol., vol. 10, pages 92-98 1987				
	AT	KAIBEL, Gerd et al. "Gestaltung destillativer Trennungen unter Einbeziehung thermodynamischer Gesichtspunkte", Chem.-Ing.-Tech., vol. 61, no. 1, pages 16-25, with English abstract 1989				
	AU	KAIBEL, G. et al. "Thermodynamics - guideline for the development of distillation column arrangements", Gas Separation & Purification, vol. 4, pages 109-114 1990				
	AV	"Distillation's great leap forward?" Process Engineering, vol. 2, pages 33-34 1993				
	AW	LESTAK, F. et al. "Heat Transfer Across the Wall of Dividing Wall Columns", Trans IChemE, vol. 72, part A, pages 639-644 1994				
	AX	LESTAK, Frigyes et al. "Advanced Distillation Saves Energy & Capital", Chemical Engineering, vol. 7, pages 72-76 1997				
	AY	"Production", Hydrogen Peroxide, Ullmann's Encyclopedia of Industrial Chemistry, 5 <sup>th</sup> ed., vol. 13, pages 447-56				<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

### STATEMENT OF RELEVANCY

- A process for separating a mixture which is azeotropic or behaves almost azeotropically and is difficult to separate by distillation, into two pure or substantially pure fractions by distillation, by adding a further component, using a procedure which is similar to extractive distillation and is carried out in a distillation column, a section of which is divided into a feed part and a take-off part by a separating means which is effective in the longitudinal direction and prevents cross-mixing of liquid streams and/or vapor streams,

New U.S. PCT Application Based on PCT/EP03/07989  
Docket No.: 264390US0PCT

#### STATEMENT OF RELEVANCY

EP 0 133 510 cont.

wherein the azeotropic mixture is fed in part-streams to the feed part and to the take-off part, in each case at or near the top, and one of the two pure or substantially pure fractions is removed as overhead product from the distillation column, and the other fraction is removed as side product from the take-off part, the side product passing from the feed part into the take-off part only at the lower end of the separating means.

EP 0 126 288

A method of carrying out a chemical reaction and simultaneously separating a product mixture into several fractions by means of a distillation column which, in parts, is divided into a reaction section and a distillation section by separating means which are effective in the longitudinal direction and prevent cross-mixing of liquid and/or vapor streams, wherein two or more reactants and, where relevant, a catalyst are fed into the reaction section (3), and at the same time one or more medium-boiling fractions, which can consist of reactants and/or reaction products and are free, or substantially free, from contamination by overhead and bottom fractions, are taken off in vapor or liquid form from the distillation section (4).